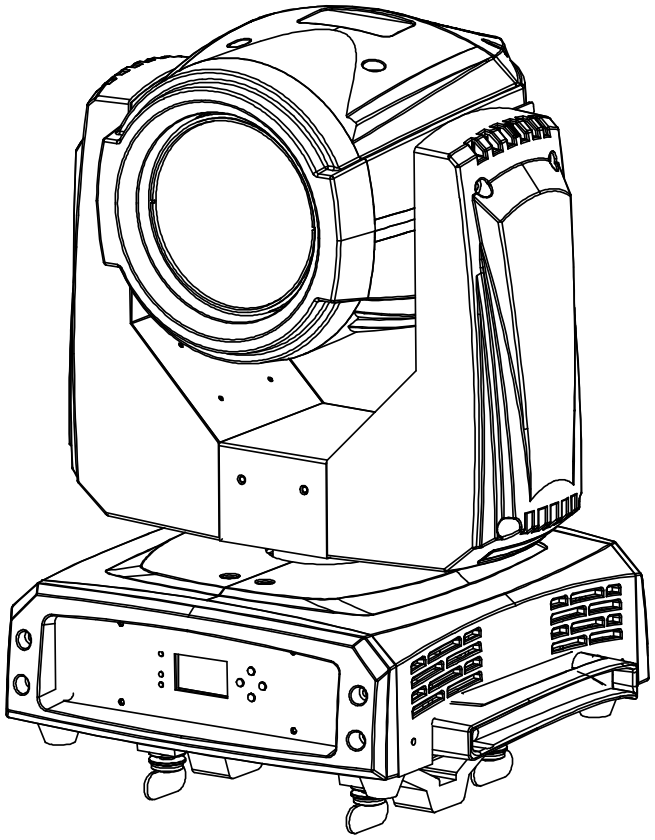
BTX 5R BEAM



ENGLISH

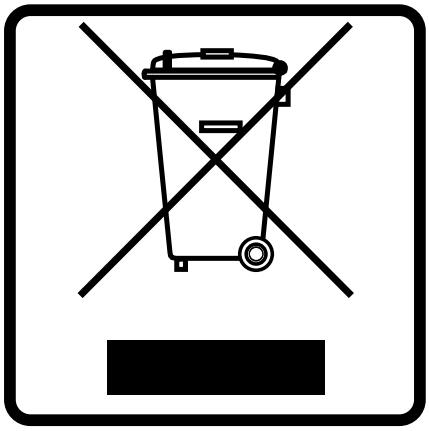
Operation Manual

Other languages can be downloaded from:
WWW.BRITEQ-LIGHTING.COM

CE

Version: 1.0

BriteQ® LIGHT RESEARCH



EN - DISPOSAL OF THE DEVICE
Dispose of the unit and used batteries in an environment friendly manner according to your country regulations.

FR - DÉCLASSER L'APPAREIL
Débarrassez-vous de l'appareil et des piles usagées de manière écologique
Conformément aux dispositions légales de votre pays.

NL - VERWIJDEREN VAN HET APPARAAT
Verwijder het toestel en de gebruikte batterijen op een milieuvriendelijke manier conform de in uw land geldende voorschriften.

DU - ENTSORGUNG DES GERÄTS
Entsorgen Sie das Gerät und die Batterien auf umweltfreundliche Art und Weise gemäß den Vorschriften Ihres Landes.

ES - DESHACERSE DEL APARATO
Reciclar el aparato y pilas usadas de forma ecologica conforme a las disposiciones legales de su pais.

PT - COMO DESFAZER-SE DA UNIDADE
Tente reciclar a unidade e as pilhas usadas respeitando o ambiente e em conformidade com as normas vigentes no seu país.

OPERATION MANUAL

Thank you for buying this Briteq® product. To take full advantage of all possibilities and for your own safety, please read these operating instructions very carefully before you start using this unit.

FEATURES

This unit is radio-interference suppressed. This product meets the requirements of the current European and national guidelines. Conformity has been established and the relevant statements and documents have been deposited by the manufacturer.

- This device was designed to produce decorative effect lighting and is used in light show systems.
- An incredible powerful moving beam projector based on the legendary Philips MSD Platinum 5R lamp!
- The advanced optics guarantee an incredibly bright beam with excellent specs:
  - Brightness : 200.000lux @ 10m and 60.000lux @ 20m!
  - Zoom: 1° ~ 3.8°
  - DMX-controlled electronic focus
  - Frost filter
  - 17 sharp gobos + open
  - 14 carefully selected diachronic colors + open
  - Very fast mechanical dimmer/shutter
  - Different strobe functions
  - Remote lamp on/off control
- The very fast pan/tilt movements (540°/270°) assure very dynamic show programming.
- 8 or 16bit resolution pan/tilt resolution with position correction.
- The matrix LCD-display assures easy navigation in the different setup menus
- Battery backup makes it possible to configure the machine while the machine is not connected to the mains.
- Different DMX channel modes for maximum flexibility
- Easy firmware updates keep your machine up-to-date at all times (optional firmware updater needed)
- Remote DMX-addressing
- Neutrik 3pin & 5pin in/outputs for maximum flexibility in a professional environment
- Neutrik Powercon in/outputs: up to 15 units can be daisy chained for easy installation

BEFORE USE

- Before you start using this unit, please check if there's no transportation damage. Should there be any, do not use the device and consult your dealer first.
- **Important:** This device left our factory in perfect condition and well packaged. It is absolutely necessary for the user to strictly follow the safety instructions and warnings in this user manual. Any damage caused by mishandling is not subject to warranty. The dealer will not accept responsibility for any resulting defects or problems caused by disregarding this user manual.
- Keep this booklet in a safe place for future consultation. If you sell the fixture, be sure to add this user manual.

Check the contents:

Check that the carton contains the following items:

- Operating instructions
- BTX-BEAM 5R
- 2x omega Brackets
- Powercon cable

SAFETY INSTRUCTIONS:

CAUTION: To reduce the risk of electric shock, do not remove the top cover. No user-serviceable parts inside. Refer servicing to qualified service personnel only.

The lightning flash with arrowhead symbol within the equilateral triangle is intended to alert the use or the presence of un-insulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock.

The exclamation point within the equilateral triangle is intended to alert the user to the presence of important operation and maintenance (servicing) instructions in the literature accompanying this appliance.

This symbol means: indoor use only

This symbol means: Read instructions

This symbol means: Safety Class I appliance

This symbol determines: the minimum distance from lighted objects. The minimum distance between light-output and the illuminated surface must be more than 12 meters

The device is not suitable for direct mounting on normally flammable surfaces. (suitable only for mounting on non-combustible surfaces)

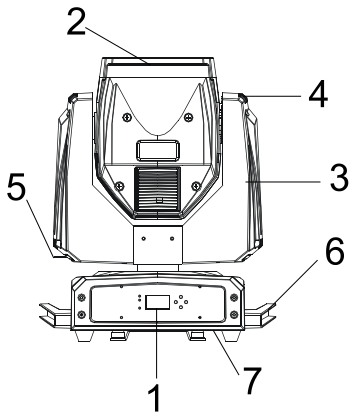
- To protect the environment, please try to recycle the packing material as much as possible.
- A new light effect sometimes causes some unwanted smoke and/or smell. This is normal and disappears after some minutes.
- To prevent fire or shock hazard, do not expose this appliance to rain or moisture.
- To avoid condensation to be formed inside, allow the unit to adapt to the surrounding temperatures when bringing it into a warm room after transport. Condense sometimes prevents the unit from working at full performance or may even cause damages.
- This unit is for indoor use only.
- Don’t place metal objects or spill liquid inside the unit. Electric shock or malfunction may result. If a foreign object enters the unit, immediately disconnect the mains power.
- Locate the fixture in a well ventilated spot, away from any flammable materials and/or liquids. The fixture must be fixed at least 50cm from surrounding walls.
- Don’t cover any ventilation openings as this may result in overheating.
- Prevent use in dusty environments and clean the unit regularly.
- Keep the unit away from children.
- Inexperienced persons should not operate this device.
- Maximum save ambient temperature is 40°C. Don’t use this unit at higher ambient temperatures.
- The units’ surface temperature may reach up to 85°C. Don’t touch the housing with bare hands during its operation.
- Make sure the area below the installation place is free from unwanted persons during rigging, de-rigging and servicing.
- Allow the device about 10 minutes to cool down before replacing the bulb or start servicing.
- Always unplug the unit when it is not used for a longer time or before replacing the bulb or start servicing.
- The electrical installation should be carried out by qualified personal only, according to the regulations for electrical and mechanical safety in your country.
- Check that the available voltage is not higher than the one stated on the rear panel of the unit.
- The power cord should always be in perfect condition. Switch the unit immediately off when the power cord is squashed or damaged. It must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- Never let the power-cord come into contact with other cables!
- This fixture must be earthed in order to comply with safety regulations.
- Don’t connect the unit to any dimmer pack.
- Always use an appropriate and certified safety cable when installing the unit.
- In order to prevent electric shock, do not open the cover. Apart from the lamp and mains fuse there are no user serviceable parts inside.
- **Never** repair a fuse or bypass the fuse holder. **Always** replace a damaged fuse with a fuse of the same type and electrical specifications!
- In the event of serious operating problems, stop using the fixture and contact your dealer immediately.

- The housing and the lenses must be replaced if they are visibly damaged.
- Please use the original packing when the device is to be transported.
- Due to safety reasons it is prohibited to make unauthorized modifications to the unit.

Important: Never look directly into the light source! Don't use the effect in the presence of persons suffering from epilepsy.

DESCRIPTION:

1. Control panel
2. Head
3. Arm
4. Tilt arm self-locking handle
5. pan self-locking handle
6. Handle
7. Base

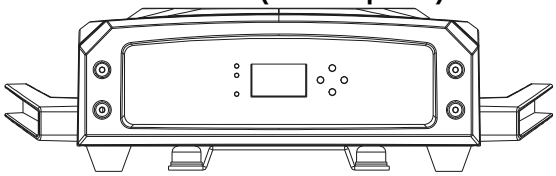


Caution: The head and arm must be unlocked before operation!

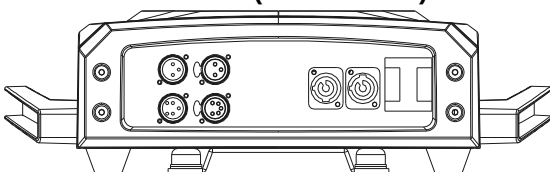
- Tilt mechanism locks and releases every 45°
- Pan mechanism locks and releases every 90°

Control Panel

Front view (control panel)



Rear view (connections)



LEDs (left side of the LCD display):

POWER	On	Power on
BATTERY	On	Battery status
DMX	On	DMX signal

Buttons (right side of the LCD display):

MENU	To enter, move back or leave the menu
▲ **UP**	Move up in the menu
▼ **DOWN**	Move down in the menu
ENTER	Confirm the desired function

Button Shortcuts:

There are 4 different shortcuts to access specific functions without the need for using the setup menu. While the screen displays the standard window (see right), the user can press the following button combinations:

- **Lamp on:** Press **MENU** and **UP** together during 3s.
- **Lamp off:** Press **MENU** and **DOWN** together during 3s.
- **Reset Unit:** Press **MENU** and **ENTER** together during 3s.
- **Reverse display:** Press **UP** and **DOWN** together.

DMX Address Base 30**°C**
001
Md.1 19Ch.

Connections

- **DMX input/output:** For DMX 512 operation, use good DMX cable with 3 or 5-pin XLR-connectors to link the units together
- **PowerCon out/input:** The Powercon in/out connectors allow the user to daisy chain up to 15 units on the same 20A power line. While connected to a 16A power line, only 12 units can be connected.
- **Power Switch:** The BTX-BEAM 5R uses a circuit 6A-breaker instead of a usual fuse, if the circuit breaker shuts down for any reason, the user can simply put the switch back on.

LAMP (RE)PLACEMENT

In case of replacement of the lamp or maintenance, do not open the fixture within 10 minutes until the unit cools down after switching off. Always unplug the unit before servicing! Always use the same type of spare parts (bulbs, fuses, etc.) When replacing parts, please only genuine spare parts.

- Switch off the unit and unplug the mains cable.
- Wait for about 10 minutes until the unit has been cooled down.
- Use a screwdriver to unscrew the screws to open the cover of the fixture.(Fig. 1)
- Remove the fan (Fig. 2)
- Inside you will see the lamp socket. Remove the lamp socket gently out of the lamp compartment.
- Pull out the cable (Fig.3)
- Replace the cable to the new lamp, insert the lamp gently (Fig. 4)
- Adjust the hotspot using a screw (Fig. 4)
  Attention! Check the label on the backside of the device or see the technical specifications in this manual to know which lamp should be used. Never install lamps with a higher wattage! Lamps with higher wattage generate temperatures the device was not designed for. If the device uses a lamp transformer, it will burn due to current overload.
- Don't touch the bulb with bare hands! This drastically shortens the lifespan of the lamp. If you touched the lamp, clean it with a cloth and a little denatured alcohol. Wipe the lamp off before installing.
- Be sure that the wires don't touch the lamp.
- Reinstall the fan
- Close the cover
- Done

Fig.1 Use 1/4 Turn to loosen the four screws and open the cover.

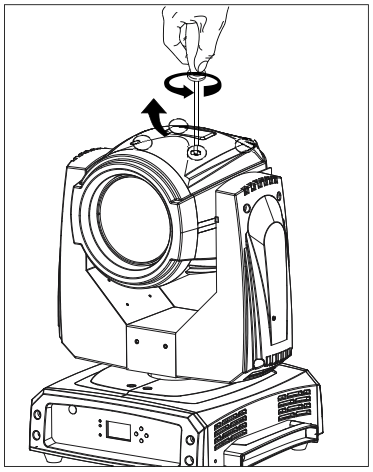


Fig.2 Use 1/4 Turn to loosen the screws and take out the fan.

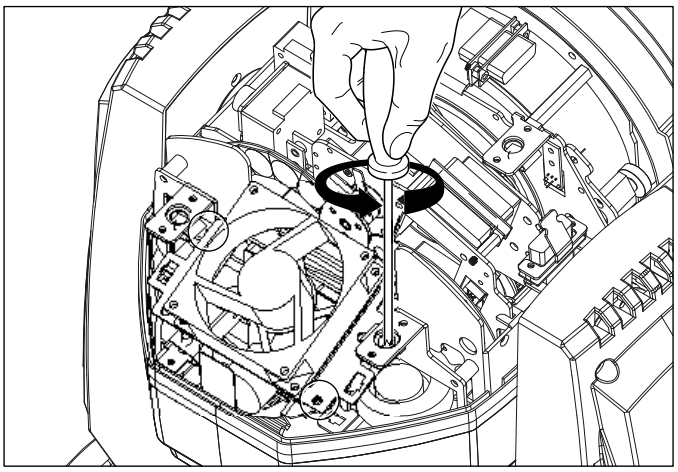


Fig.3 Take away the old lamp.

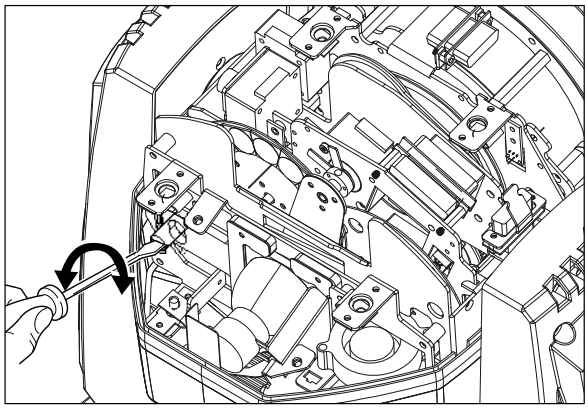
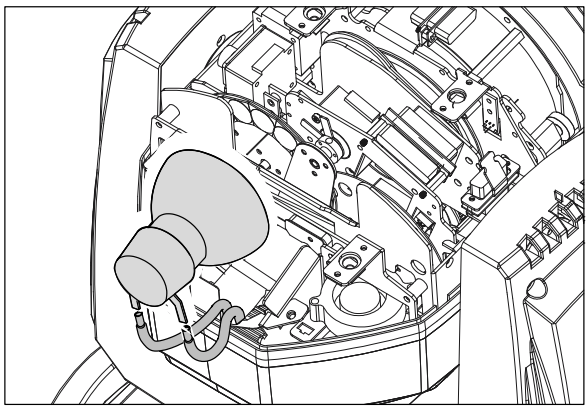


Fig.4 Unplug all the connect wires over the lamp and (wear anti-static gloves) take on the lamp. Put the new lamp in place.

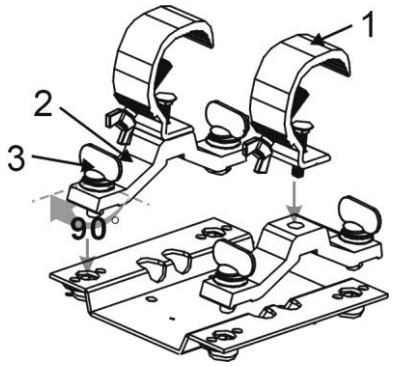


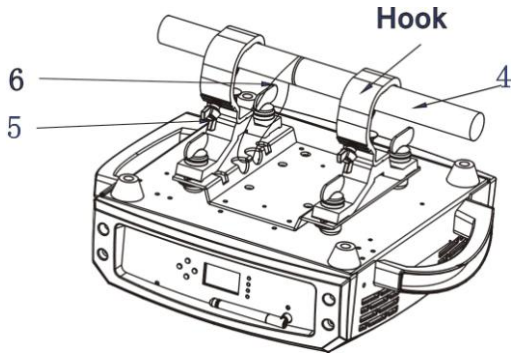
OVERHEAD RIGGING

- **<u>Important:</u> The installation must be carried out by qualified service personal only. Improper installation can result in serious injuries and/or damage to property. Overhead rigging requires extensive experience! Working load limits should be respected, certified installation materials should be used, the installed device should be inspected regularly for safety.**
- Make sure the area below the installation place is free from unwanted persons during rigging, de-rigging and servicing.
- Locate the fixture in a well ventilated spot, far away from any flammable materials and/or liquids. The fixture must be fixed **at least 50cm** from surrounding walls.
- The device should be installed out of reach of people and outside areas where persons may walk by or be seated.
- Before rigging make sure that the installation area can hold a minimum point load of 10times the device's weight.
- Always use a certified safety cable that can hold 12times the weight of the device when installing the unit. This secondary safety attachment should be installed in a way that no part of the installation can drop more than 20cm if the main attachment fails.
- The device should be well fixed; a free-swinging mounting is dangerous and may not be considered!
- Don't cover any ventilation openings as this may result in overheating.
- The operator has to make sure that the safety-relating and machine-technical installations are approved by an expert before using them for the first time. The installations should be inspected every year by a skilled person to be sure that safety is still optimal.

<u>Installation:</u>

1. Fix the Truss hooks (1) to the Omega clamps with screw and locking nut.
2. Fasten the omega clamps (2) on the bottom of the base by inserting quick-lock fasteners (3) into the holes of the base and tighten fully clockwise.
3. Hang the fixture on the truss (4) using the hooks and fasten the screws (5). Fasten the safety cable (6) through the bottom of the base and over the support.



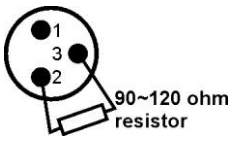


ELECTRICAL INSTALLATION + ADDRESSING

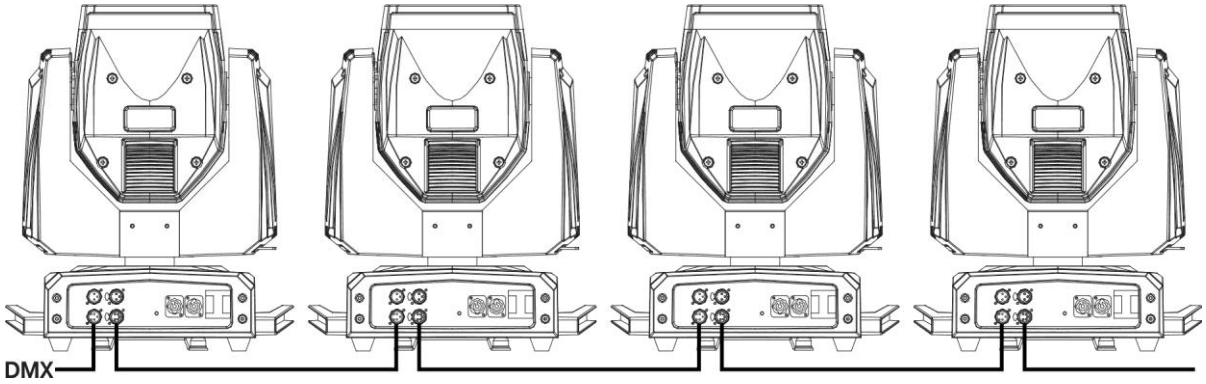
⚠ **<u>Important:</u> The electrical installation should be carried out by qualified personal only, according to the regulations for electrical and mechanical safety in your country.**

<u>Electrical installation for two or more units in DMX-mode:</u>

- The DMX-protocol is a widely used high speed signal to control intelligent light equipment. You need to "daisy chain" your DMX controller and all the connected units with a good quality balanced cable.
- Both XLR-3pin and XLR-5pin connectors are used, however XLR-3pin is more popular because these cables are compatible with balanced audio cables.
  Pin layout XLR-3pin: Pin1 = GND ~ Pin2 = Negative signal (-) ~ Pin3 = Positive signal (+)
  Pin layout XLR-5pin: Pin1 = GND ~ Pin2 = Negative signal (-) ~ Pin3 = Positive signal (+) ~ Pins4+5 not used.
- To prevent strange behavior on the dmx units, due to interferences, you must use a 90Ω to 120Ω terminator at the end of the chain. Never use Y-splitter cables, this simply won't work!
- Make sure that all units are connected to the mains.
- Each unit in the chain needs to have its proper starting address so it knows which



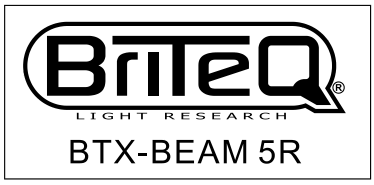
commands from the controller it has to decode. In the next section you will learn how to set the DMX addresses.

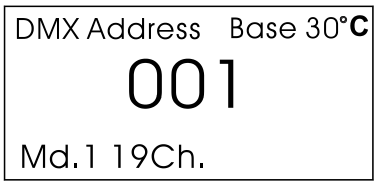


OPERATING INSTRUCTIONS

- Do not switch the unit on and off in short time intervals as this reduces the lamp life.
- Always unplug the unit when it is not used for a longer time or before replacing the bulb and or making the service.
- In the event of serious operating problems, stop using the fixture and contact your dealer immediately.
- **Important:** Never look directly into the light source! Don't use the effect in the presence of persons suffering from epilepsy.

Every time you turn on the unit, it will run built-in program to reset all motors to their home position, the display will show the Briteq logo during the startup, you may hear some noises for about 20 seconds. It will show warning sign if one of the checks fails during the reset and you can press the **MENU** button to view the error information. After that, the unit will be ready to receive DMX signal and the standard display will show as below on the right.





Standard display explained:

Base 30°C	Shows the temperature of the CPU in the base
001	Shows the DMX start address of the unit
Md.1 19Ch.	Shows the currently selected channel mode (19ch mode on the display)

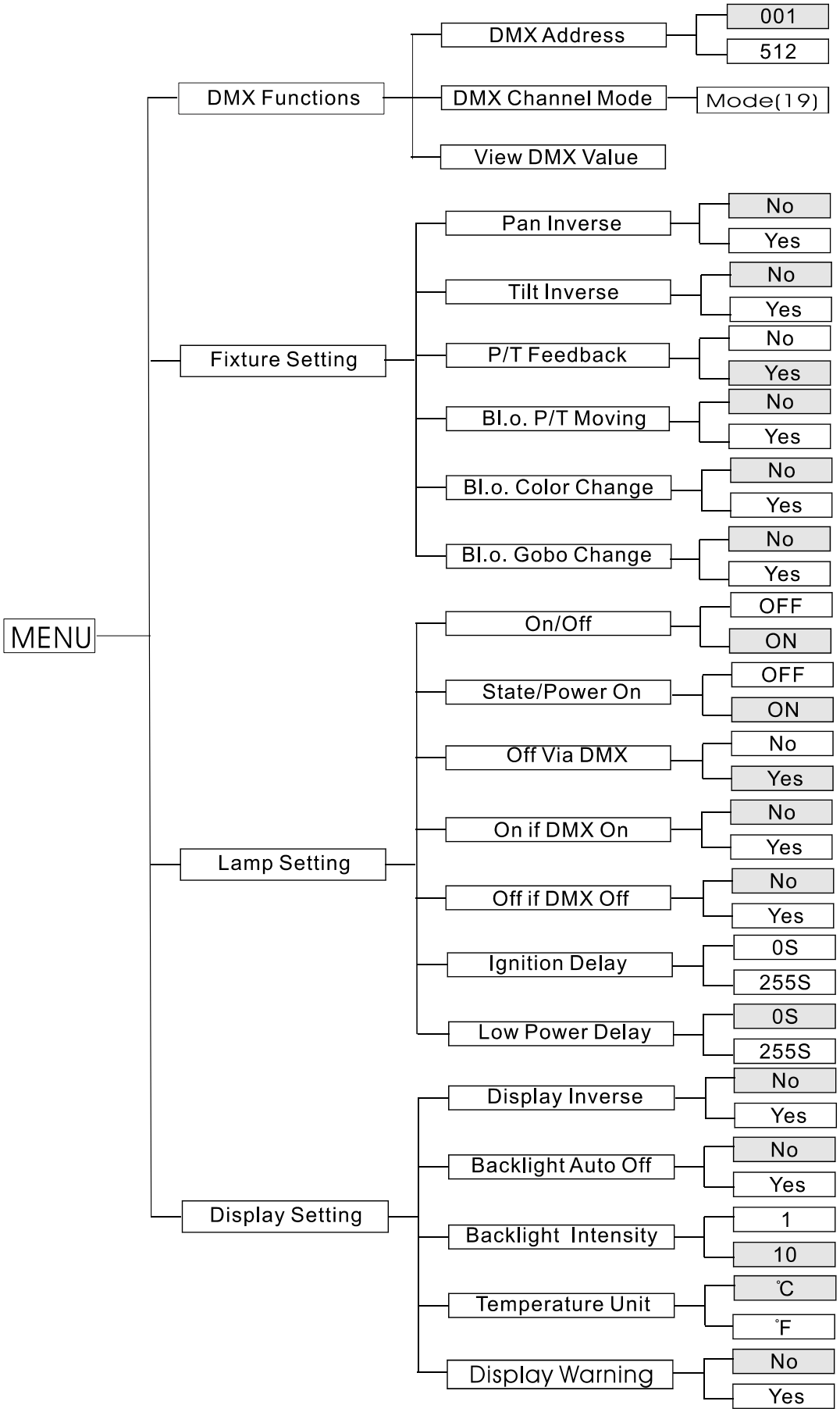
SETUP MENU - Main functions

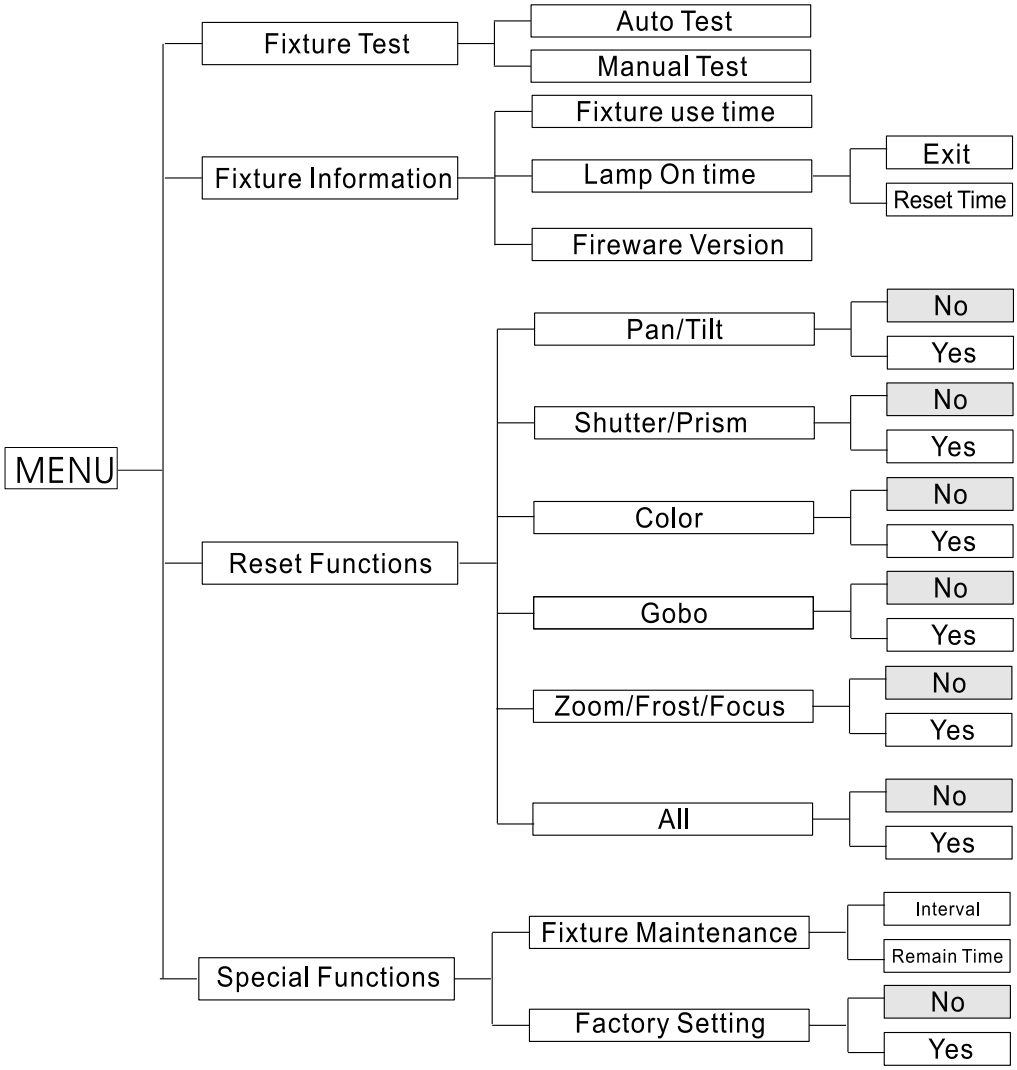
Turn on the unit, press **MENU** button to enter into menu mode, press **UP** and **DOWN** buttons until the required function is shown on the display. Select the function by pressing the **ENTER** button. Use **UP** and **DOWN** buttons to choose the submenu, press the **ENTER** button to store/confirm and automatically return to the last menu. Press **MENU** button or leave the unit unused for one minute to exit menu mode.

BATTERY BACKUP FUNCTION:

While the unit is disconnected from mains power, press **UP** button for one minute to enter into menu mode. Press **MENU** button or let the unit unused during one minute to exit.

The main functions are shown in the menu structure below, the grayed boxes are the default settings:





DMX Functions

Enter menu mode, select **DMX Functions**, press ENTER button to confirm, use UP and DOWN buttons to select **DMX Address**, **DMX Channel Mode** or **View DMX Value**

DMX Address (DMX512 address setting)
Select **DMX Address**, press **ENTER** button to confirm, the current address will blink on the display, use **UP** and **DOWN** button to adjust the address from **1** to **512**, press **ENTER** button to store. Press the **MENU** button to go back to the last menu, if you leave the unit unused for one minute it will automatically exit from menu mode.

Example:

Channel mode	Unit 1 Address	Unit 2 Address	Unit 3 Address	Unit 4 Address
19 channels	1	20	39	58

DMX Channel Mode
To select **DMX Channel Mode**, press **ENTER** button to confirm, the current channel mode will blink on the display, use **UP** and **DOWN** button to select **Mode1 (19 channels mode)**,… Press **ENTER** button to confirm. Press the **MENU** button to go back to the last menu, if you leave the unit unused for one minute it will automatically exit from menu mode.

View DMX Value
Select **View DMX Value**, press **ENTER** button to confirm. Channel function and its value will show on the display, use **UP** and **DOWN** button to view other DMX values. Press the **MENU** button to go back to the last menu, if you leave the unit unused for one minute it will automatically exit from menu mode.

Fixture Setting

Enter menu mode, select **Fixture Setting**, press **ENTER** button to confirm, use **UP** and **DOWN** buttons to select **Pan Inverse, Tile Inverse, BL.O. P/T Moving, BL.O. Color Change or BL.O. Gobo Change.**

Pan Inverse
Select **Pan Inverse**, press **ENTER** button to confirm, current mode will blink on the display, use **UP** and DOWN buttons to select **No** (normal) or **Yes** (pan inverse), press **ENTER** button to store. Press the **MENU** button to go back to the last menu, if you leave the unit unused for one minute it will automatically exit from menu mode.

Tilt Inverse
Select **Tilt Inverse**, press **ENTER** button to confirm, current mode will blink on the display, use **UP** and **DOWN** buttons to select **No** (normal) or **Yes** (tilt inverse), press **ENTER** button to store. Press the **MENU** button to go back to the last menu, if you leave the unit unused for one minute it will automatically exit from menu mode.

P/T Feedback (pan/tilt Feedback)
Select **P/T Feedback**, press **ENTER** button to confirm, current mode will blink on the display, press **UP**/**DOWN** buttons to select **No** (Pan or tilt's position will not feedback while they are out of step.) or **Yes** (pan/tilt will feedback if they are out of step.), press **ENTER** button to store. Press the **MENU** button to go back to the last menu, if you leave the unit unused for one minute it will automatically exit from menu mode.

BL.O. P/T Moving (Blackout while pan/tilt moving)
Select **BL.O. P/T Moving**, Press **ENTER** button to confirm, current mode will blink on the display, use **UP** and **DOWN** buttons to select **No** (normal while pan/tilt are moving) or **Yes** (blackout while pan/tilt are moving), press **ENTER** button to store. Press the **MENU** button to go back to the last menu, if you leave the unit unused for one minute it will automatically exit from menu mode.

BL.O. Color Change (Blackout while change color)
Select **BL.O. Color Change**, press **ENTER** button to confirm, current mode will blink on the display, use **UP** and **DOWN** buttons to select **No** (normal while the color is changing) or **Yes** (blackout while the color is changing), press **ENTER** button to store. Press the **MENU** button to go back to the last menu, if you leave the unit unused for one minute it will automatically exit from menu mode.

BL.O. Gobo Change (Blackout while change gobo)
Select **BL.O. Gobo Change**, press **ENTER** button to confirm, current mode will blink on the display, use **UP** and **DOWN** buttons to select **No** (normal while gobo is changing) or **Yes** (blackout while gobo is changing), press **ENTER** button to store. Press the **MENU** button to go back to the last menu, if you leave the unit unused for one minute it will automatically exit from menu mode.

Lamp Setting

Enter menu mode, select **Fixture Setting**, press ENTER button to confirm, use UP and DOWN buttons to select **On/Off, State/Power on, Off Via DMX, On if DMX on, Off if DMX off, Cooling Mode, Ignition Delay** or **Low Power Delay**

On/Off (Turn on/off the lamp)
Select **On/Off**, press **ENTER** button to confirm, current mode will blink on the display, use **UP** and **DOWN** buttons to select **On** (lamp on) or **Off** (lamp off), press **ENTER** button to store. Press the **MENU** button to go back to the last menu, if you leave the unit unused for one minute it will automatically exit from menu mode.

State/Power On (Lamp state while power on)
Select **State/Power On**, press **ENTER** button to confirm, current mode will blink on the display, use **UP** and **DOWN** buttons to select **On** (Lamp strike during the startup reset) or **Off** (Lamp is off at the startup), press **ENTER** button to store. Press **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

Off Via DMX (Turn off the unit via DMX controller)
Select **Off Via DMX**, press **ENTER** button to confirm, current mode will blink on the display, use **UP** and **DOWN** buttons to select **Yes** (enable turn off lamp via DMX) or **No** (disable turn off lamp via DMX), press

ENTER button to store. Press the **MENU** button to go back to the last menu, if you leave the unit unused for one minute it will automatically exit from menu mode.
PS: When you operate the unit via DMX controller, set the value of channel "special function" to "lamp off", after 5 seconds the lamp will be switched off.

On If DMX On (Lamp turns on when DMX signal is detected)
Select **On If DMX On**, press **ENTER** button to confirm, current mode will blink on the display, use **UP** and **DOWN** buttons to select **Yes** (Lamp turns on when DMX signal is detected) or **No** (keep the default setting), press **ENTER** button to store. Press the **MENU** button to go back to the last menu, if you leave the unit unused for one minute it will automatically exit from menu mode (If the lamp is off via DMX signal, you can reconnect the DMX controller to switch the lamp on).

Off If DMX Off (Lamp turns off when DMX signal is off)
Select **Off If DMX Off**, press **ENTER** button to confirm, current mode will blink on the display, use **UP** and **DOWN** buttons to select **Yes** (Lamp turns off when DMX signal is cut off), press **ENTER** button to store. Press the **MENU** button to go back to the last menu, if you leave the unit unused for one minute it will automatically exit from menu mode.

Ignition Delay (Delay time between power on and lamp on)
Select **Ignition Delay**, press **ENTER** button to confirm, current mode will blink on the display, use **UP** and **DOWN** buttons to adjust the delay time from 0S to 255S, press **ENTER** button to store. Press the **MENU** button to go back to the last menu, if you leave the unit unused for one minute it will automatically exit from menu mode.

Low Power Delay (Delay time between reduce lamp power and shutting off the unit)
Select **Low Power Delay**, press **ENTER** button to confirm, current mode will blink on the display, use **UP** and **DOWN** buttons to adjust the delay time from 0s to 255s, press **ENTER** button to store. Press the **MENU** button to go back to the last menu, if you leave the unit unused for one minute it will automatically exit from menu mode. (If you set the low power delay time to 3s, the lamp will run in half power 3 seconds after the shutter is totally closed)

Display Setting

Enter menu mode, select **Display Setting**, press **ENTER** button to confirm, use **UP** and **DOWN** buttons to select **Display Inverse, Backlight Auto Off, Backlight Intensity** or **Temperature unit** and **Display Warning.**

Display Inverse
Select **Display Inverse**, press **ENTER** button to confirm, current mode will blink on the display, use **UP** and **DOWN** buttons to select **No** (normal display) or **Yes** (inverse display), press **ENTER** button to store. Press the **MENU** button to go back to the last menu, if you leave the unit unused for one minute it will automatically exit from menu mode.

Backlight Auto Off
Select **Backlight Auto Off**, press **ENTER** button to confirm, current mode will blink on the display, use **UP** and **DOWN** buttons to select **No** (display always on) or **Yes** (display goes off one minute after exiting menu mode), press **ENTER** button to store. Press the **MENU** button to go back to the last menu, if you leave the unit unused for one minute it will automatically exit from menu mode.

Backlight Intensity
Select **Backlight Intensity**, press **ENTER** button to confirm, current mode will blink on the display, use **UP** and **DOWN** buttons to adjust backlight intensity from **1** (dark) to **10** (bright), press **ENTER** button to store. Press the **MENU** button to go back to the last menu, if you leave the unit unused for one minute it will automatically exit from menu mode.

Temperature Unit
Select **Temperature Unit**, press **ENTER** button to confirm, current mode will blink on the display, use **UP** and **DOWN** buttons to select **C°** or **F°**, press **ENTER** button to store. Press the **MENU** button to go back to the last menu, if you leave the unit unused for one minute it will automatically exit from menu mode.

Display Warning
Select **Display Warning**, press **ENTER** button to confirm, current mode will blink on the display, use **UP** and **DOWN** buttons to select **No** (display does not show the warning when the unit goes wrong) or **Yes** (display will show the warning when unit goes wrong), press **ENTER** button to store. Press the **MENU** button to go back to the last menu, if you leave the unit unused for one minute it will automatically exit from menu mode.

Fixture Test

Enter menu mode, select **Fixture Test**, press **ENTER** button to confirm, use **UP** and **DOWN** buttons to select **Auto Test** or **Manual Test**

Auto Test
Select **Auto Test**, press **ENTER** button to confirm, the unit will run built-in programs to automatically test pan, tilt, color, gobo, gobo rotation, shutter, dimmer, prism, prism rotation, frost, focus, and lamp on/off. Press **MENU** button back to the last menu or exit menu mode after auto test.

Manual Test
Select **Manual Test**, press **ENTER** button to confirm, the current channel will show on the display, use Up and **DOWN** buttons to select channel, press **ENTER** button to confirm, then use **UP** and **DOWN** buttons to adjust the value, press **ENTER** button to store, the fixture will run as the channel value indicates. Press the **MENU** button to go back to the last menu, if you leave the unit unused for one minute it will automatically exit from menu mode. (All channel values will become 0 after exiting Manual Test menu)

Fixture Information

Enter menu mode, select **Fixture Information**, press **ENTER** button to confirm, use **UP** and **DOWN** buttons to select **Fixture Use Time, Lamp On Time** or **Firmware Version.**

Fixture Use Time
Select **Fixture Use Time**, press **ENTER** button to confirm, fixture use time will show on the display, press **MENU** button to exit.

Lamp On Time
Select **Lamp On Time**, press **ENTER** button to confirm, lamp on time will show on the display, press **ENTER** button to confirm, use **UP** and **DOWN** buttons to select **Exit** or **Reset Time**, press **ENTER** button to confirm. Press the **MENU** button to go back to the last menu, if you leave the unit unused for one minute it will automatically exit from menu mode.

Firmware Version
Select **Firmware Version**, press **ENTER** button to confirm, firmware version will show on the display, press **MENU** button back to exit.

Reset Functions

Enter menu mode, select **Reset Function**, press **ENTER** button to confirm, use **UP** and **DOWN** buttons to select **Pan/Tilt, Shutter/Prism, Color, Gobo, Zoom/ Focus/ Frost** or **All.**

Pan/Tilt (Reset Pan/Tilt)
Select **Pan/Tilt**, press **ENTER** button to confirm, use **UP** and **DOWN** buttons to select **Yes** (the unit will run built-in program to reset pan and tilt to their home positions) or **No**, press **ENTER** button to store. Press the **MENU** button to go back to the last menu, if you leave the unit unused for one minute it will automatically exit from menu mode.

Shutter/Prism (Reset Shutter/ Prism)
Select **Shutter//Prism**, press **ENTER** button to confirm, use **UP** and **DOWN** buttons to select **Yes** (the unit will run built-in program to reset shutter and **Prism** to their home positions) or **No**, press **ENTER** button to store. Press **MENU** button to exit.

Color (Reset Color)
Select **Color**, press **ENTER** button to confirm, use **UP** and **DOWN** buttons to select **Yes** (the unit will run built-in program to reset color to their home positions) or **No**, press **ENTER** button to store. Press **MENU** button to exit.

Gobo (Reset GOBO)
Select **Gobo**, press **ENTER** button to confirm, use **UP** and **DOWN** buttons to select **Yes** (the unit will run built-in program to reset GOBO wheel to their home positions) or **No**, press **ENTER** button to store. Press **MENU** button to exit.

Zoom /Frost/Focus (Reset Zoom /Frost/Focus)
Select **Zoom /Frost/Focus,** press **ENTER** button to confirm, use **UP** and **DOWN** buttons to select **Yes** (the unit will run built-in program to reset zoom, frost and frost to their home positions) or **No**, and press **ENTER** button to store. Press **MENU** button to exit.

All (Reset All)
Select **All,** press **ENTER** button to confirm, use **UP** and **DOWN** buttons to select **Yes** (the unit will run built-in program to reset all motors to their home positions) or **No**, press **ENTER** button to store. Press **MENU** button to exit.

Special Functions

Enter menu mode, select **Special Functions**, press **ENTER** button to confirm, use **UP** and **DOWN** buttons to select **Fixture Maintenance** or **Factory Setting.**

Fixture Maintenance
Select **Fixture Maintenance**, press **ENTER** button to confirm, use **UP** and **DOWN** buttons to select **Interval** or **Remain Time**.

Interval
Select **Interval,** press **ENTER** button to confirm, the interval time will show on the display. Press **MENU** button to exit.

Remain Time
Select **Remain Time,** press **ENTER** button to confirm, the remaining time will show on the display, press **ENTER** button to confirm, use **UP** and **DOWN** buttons to select **Exit** or **Reset time**, press **MENU** button to exit.

Factory Setting
Select **Factory Setting**, press **ENTER** button to confirm, the fixture will reset to factory settings and exit menu mode.

Home Position Adjustment

Press **MENU** button into menu mode, then press **ENTER** button for about 3 seconds into offset mode to adjust the home position. Select the function by **ENTER** button. Use **UP** and **DOWN** button to choose the submenu, press the **ENTER** button to store and automatically return to the last menu. Press **MENU** button to exit.

Pan
Enter offset mode, Select **Pan**, press **ENTER** button to confirm, the current position will blink on the display, use **UP** and **DOWN** buttons to offset the value from -128 to 127, press **ENTER** button to store. Press **MENU** button to exit.

Tilt
Enter offset mode, Select **Tilt**, press **ENTER** button to confirm, the current position will blink on the display, use **UP** and **DOWN** buttons to offset the value from -128 to 127, press **ENTER** button to store. Press **MENU** button to exit.

Shutter
Enter offset mode, Select **Shutter**, press **ENTER** button to confirm, the current position will blink on the display, use **UP** and **DOWN** buttons to offset the value from 0 to 255, press **ENTER** button to store. Press **MENU** button to exit.

Color
Enter offset mode, Select **Color**, press **ENTER** button to confirm, the current position will blink on the display, use **UP** and **DOWN** buttons to offset the value from -128 to 127, press **ENTER** button to store. Press **MENU** button to exit.

Gobo
Enter offset mode, Select **Gobo**, press **ENTER** button to confirm, the current position will blink on the display, use **UP** and **DOWN** buttons to offset the value from -128 to 127, press **ENTER** button to store. Press MENU button to exit.

Prism
Enter offset mode, Select **Prism**, press **ENTER** button to confirm, the current position will blink on the display, use **UP** and **DOWN** buttons to offset the value from 0 to 255, press **ENTER** button to store. Press **MENU** button to exit.

R-Prism
Enter offset mode, Select **R-Prism**, press **ENTER** button to confirm, the current position will blink on the display, use **UP** and **DOWN** buttons to offset the value from -128 to 127, press **ENTER** button to store. Press **MENU** button to exit.

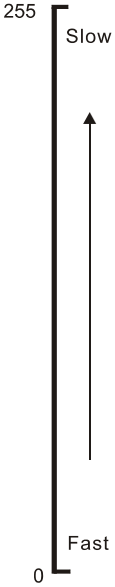
Zoom
Enter offset mode, Select **Zoom**, press **ENTER** button to confirm, the current position will blink on the display, use **UP** and **DOWN** buttons to offset the value from 0 to 255, press **ENTER** button to store. Press **MENU** button to exit.

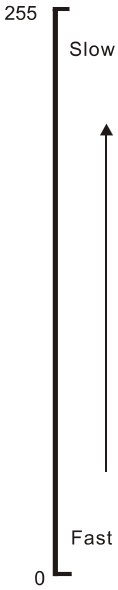
Focus
Enter offset mode, Select **Focus**, press **ENTER** button to confirm, the current position will blink on the display, use **UP** and **DOWN** buttons to offset the value from 0 to 255, press **ENTER** button to store. Press **MENU** button to exit.

Frost
Enter offset mode, Select **Frost**, press **ENTER** button to confirm, the current position will blink on the display, use **UP** and **DOWN** buttons to offset the value from 0 to 255, press **ENTER** button to store. Press **MENU** button to exit.

19 CHANNEL MODE:

BTX-BEAM5R currently has 1 DMX-mode: 19CH mode. Other, additional DMX-modes can be uploaded if needed.

Ch1	Ch2	Ch3	Ch4	Ch5
Pan	Pan Fine	Tilt	Tilt Fine	Pan/Tilt Speed
				

Ch6	Ch7	Ch8
Function	P/T Macro	P/T Macro speed
0240-255 No Function 230-239 Lamp Off 220-229 Disable blackout while pan/tilt gobo color change 210-219 Enable blackout while pan/tilt gobo color change 200-209 Reset all 190-199 Frost/Focus/zoom reset 180-189 No function 170-179 Shutter/prism/R-Prism rest 160-169 Gobo reset 150-159 Color reset 140-149 Pan/tilt reset 130-139 Lamp on 120-129 Disable blackout while gobo change 110-119 Enable blackout while gogo change 100-109 Disable blackout while color change 90-99 Enable blackout while color change 80-89 Disable blackout while pan/tilt move 70-79 Enable blackout while pan/tilt move 60-69 Pan/tilt normal mode 50-59 Pan/tilt fast mode 40-49 Dimmer linear mode 30-39 Dimmer conventional mode 0-29 No Function	248-255 Macro31 240-247 Macro30 232-239 Macro29 224-231 Macro 28 216-223 Macro27 208-215 Macro26 200-207 Macro25 192-199 Macro24 184-191 Macro 23 176-183 Macro22 168-175 Macro21 160-167 Macro20 152-159 Macro19 144-151 Macro 18 136-143 Macro17 128-135 Macro16 120-127 Macro15 112-119 Macro14 104-111 Macro 13 096-103 Macro12 088-095 Macro11 080-087 Macro10 072-079 Macro9 064-071 Macro 8 056-063 Macro7 048-055 Macro6 040-047 Macro5 032-039 Macro4 024-031 Macro 3 016-023 Macro2 008-015 Macro1 000-007 Off	

Ch9	Ch10	Ch11	Ch12
Color	Gobo	Prism	Prism Rotation
255 Rotation Fast 194 Rotation Slow 190-193 Stop 189 Rotation Slow 128 Rotation Fast 064-127 Index 061-063 Color14+White 059-060 Color14 057-058 Color13+Color14 055-056 Color13 053-054 Color12+Color13 051-052 Color12 049-050 Color11+Color12 047-048 Color11 045-046 Color10+Color11 043-044 Color10 040-042 Color9+Color10 038-039 Color9 036-037 Color8+Color9 034-035 Color8 032-033 Color7+Color8 030-031 Color7 028-029 Color6+Color7 026-027 Color6 024-025 Color5+Color6 022-023 Color5 019-021 Color4+Color5 017-018 Color4 015-016 Color3+Color4 013-014 Color3 011-012 Color2+Color3 009-010 Color2 007-008 Color1+Color2 005-006 Color1 003-004 White+Color1 000-002 White	255 Fast Rotation 194 Slow Rotation 190-193 Stop 189 Slow Rotation 128 Fast Rotation 124-127 Gobo17 Shaking 120-123 Gobo16 Shaking 116-119 Gobo15 Shaking 112-115 Gobo14 Shaking 108-111 Gobo13 Shaking 104-107 Gobo12 Shaking 100-103 Gobo11Shaking 96-99 Gobo10 Shaking 92-95 Gobo9 Shaking 88-91 Gobo8 Shaking 84-87 Gobo7 Shaking 80-83 Gobo6 Shaking 76-79 Gobo5 Shaking 72-75 Gobo4 Shaking 68-71 Gobo3 Shaking 64-67 Gobo2 Shaking 60-63 Gobo1 Shaking 56-59 White Shaking 52-55 Gobo17 49-51Gobo16 46-48 Gobo15 43-45 Gobo14 40-42 Gobo13 37-39 Gobo12 34-36 Gobo11 31-33 Gobo10 28-30 Gobo9 25-27 Gobo8 22-24 Gobo7 19-21 Gobo6 16-18 Gobo5 13-15 Gobo4 10-12 Gobo3 7-9 Gobo2 4-6 Gobo1 0-3 White	251-255 Prism rotation effects 28 247-250 Prism rotation effects 27 242-246 Prism rotation effects 26 237-241 Prism rotation effects 25 233-236 Prism rotation effects 24 228-232 Prism rotation effects 23 224-227 Prism rotation effects 22 219-223 Prism rotation effects 21 215-218 Prism rotation effects 20 210-214 Prism rotation effects 19 206-209 Prism rotation effects 18 201-205 Prism rotation effects 17 197-200 Prism rotation effects 16 192-196 Prism rotation effects 15 188-191 Prism rotation effects 14 183-187 Prism rotation effects 13 178-182 Prism rotation effects 12 174-177 Prism rotation effects 11 169-173 Prism rotation effects 10 165-168 Prism rotation effects 9 160-164 Prism rotation effects 8 156-159 Prism rotation effects 7 151-155 Prism rotation effects 6 147-150 Prism rotation effects 5 142-146 Prism rotation effects 4 138-141 Prism rotation effects 3 133-137Prism rotation effects 2 128-132 Prism rotation effects 1 8-127 Prism Effect 0-7 No function	255 Fast Rotation 194 Slow Rotation 190-193 Stop 189Slow Rotation 128 Fast Rotation 0-127 Index Rotation

Ch13	Ch14	Ch15	Ch16	Ch17	Ch18	Ch19
R-Prism Fine	Prism Movement	Focus	Frost	Shutter	Dimmer	Dimmer Fine
255 0	255 0	255 0	255 100% 0 0%	248-255 Open 240-247 Strobe Random 204-239 Slow Open Slow Close 168-203 Fast Open Slow Close 132-167 Fast Close Slow Open 131 Fast Shutter 16 Slow Shutter 8-15 Open 0-7 Off	255 100% 0 0%	255 100% 0 0%

MAINTENANCE

- Make sure the area below the installation place is free from unwanted persons during servicing.
- Switch off the unit, unplug the mains cable and wait until the unit has been cooled down.

During inspection the following points should be checked:

- All screws used for installing the device and any of its parts should be tightly fastened and may not be corroded.
- Housings, fixations and installations spots (ceiling, truss, suspensions) should be totally free from any deformation.
- When an optical lens is visibly damaged due to cracks or deep scratches, it must be replaced.
- The mains cables must be in impeccable condition and should be replaced immediately when even a small problem is detected.
- In order to protect the device from overheat the cooling fans (if any) and ventilation openings should be cleaned monthly.
- The interior of the device should be cleaned annually using a vacuum cleaner or air-jet.
- The cleaning of internal and external optical lenses and/or mirrors must be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates: damp, smoky or particularly dirty surroundings can cause greater accumulation of dirt on the unit's optics.
    - Clean with a soft cloth using normal glass cleaning products.
    - Always dry the parts carefully.
    - Clean the external optics at least once every 30 days.
    - Clean the internal optics at least every 90 days.

Attention: We strongly recommend internal cleaning to be carried out by qualified personnel!

TROUBLESHOOTING

The following points are a few common problems that may occur during operation. Here are some suggestions for easy troubleshooting:

A. The unit does not work, no light, the fan does not work

1. Check the power cable and the circuit breaker
2. Measure the mains voltage on the main connector.
3. Check the power on LED

B. Not responding to DMX controller

1. DMX LED should be on. If not, check DMX connectors, cables to see if they are linked properly.
2. If the DMX LED is on and no response to the DMX controller, check the DMX address and the channel mode.
3. If you have intermittent DMX signal problems, check the pins on connectors or on the PCB of the unit or the previous one.
4. Try to use another DMX controller.
5. Check to see if the DMX cables run near or alongside high voltage cables, this may cause damages or interferences to DMX interface circuit.

C. One of the channels is not working well

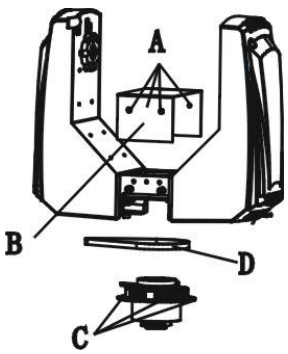
1. The cable between the motor and the PCB should be defect.
2. The motor's drive IC on the PCB might be defect.

D. The lamp is cutting out intermittently

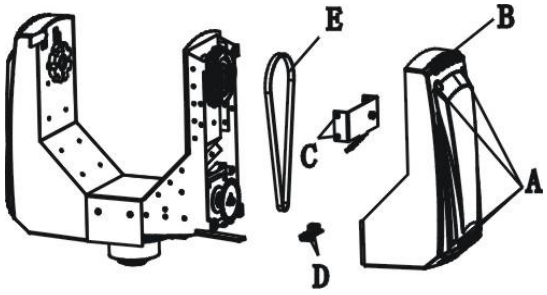
1. The lamp is not working well. Check if the mains voltage is either too high or too low.
2. Internal temperature may be too high. Check if the replacement of fan is needed on the head.

E. If The pan belt is broken

1. Turn off the mains power.
2. Loosen the screws (A), open the cover (B).
3. Loosen the screws (C).
4. Unplug all the connect wires over the belt.
5. Change a new belt (D), put the belt around the
6. axis gear and motor gear.



7. Plug all the connect wires back upon the belt.
8. Tighten all the screws.



F. If The tilt belt is broken

1. Turn off the mains power.
2. Loosen all the screws (A) and open the right arm cover (B).
3. Loosen the screws (C) that fix the bridge.
4. Change a new belt (E). Please adjust the tension of the belt properly. Note: do not fix the belt too tight as it is can easily break.
5. Reverse the procedures from step 3 to 2.

ERROR LIST

Lamp Startup Fail
It appears when there is no lamp or some wires are damaged.

Temperature Sense Error
The temperature sensor is defect.

Lamp Too Hot, Power Off
The lamp temperature is higher than 110°c. Check if the unit is properly ventilated, fans or temperature sensor may be damaged.

Lamp Too Hot, Low Power
The temperature is higher than 105°c. the unit will run on a low power level.

Maintenance Fixture
The maintenance remaining time has passed, please carry out maintenance and reset the timer in the menu.

Lamp On Over 700 Hour
The lamp life is over 700 hours, please replace the lamp.

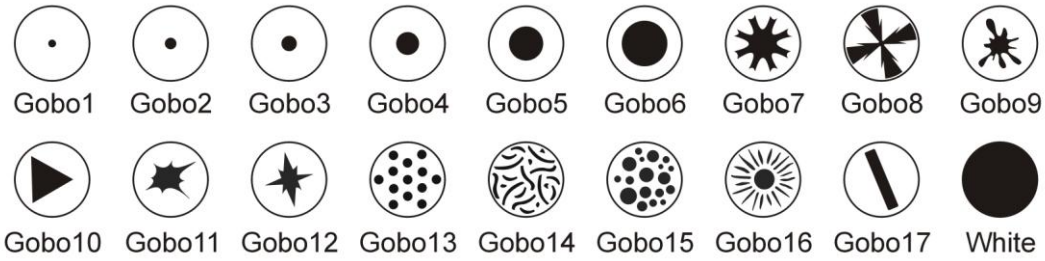
Memory Initial Fail
The memory IC is defect.

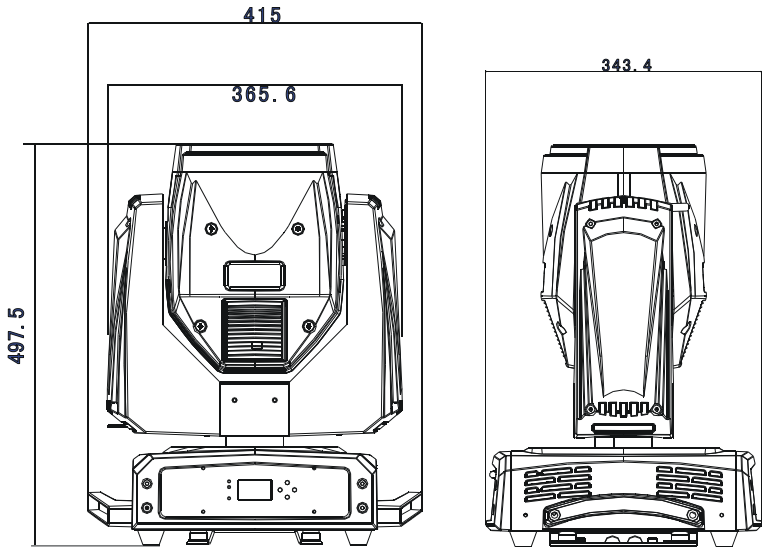
CPU-B Error, CPU-C Error, CPU-D Error
One of the CPU boards or some wires are defect.

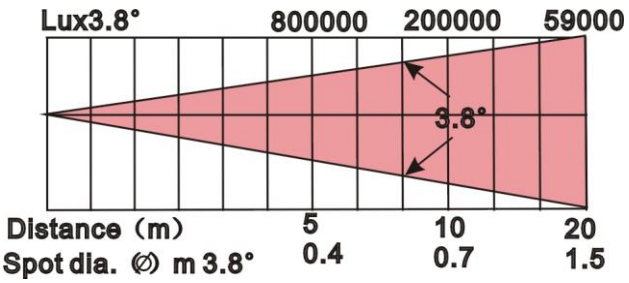
Pan Reset Error, Pan Encode Error, Tilt Reset Error, Tilt Encode Error, Shutter Reset Fail, Dimmer Reset Fail, Color Reset Fail, , Gobo Reset Fail, and Frost Reset Fail
They may appear when turning on or resetting the unit or some parts such as board P.C are damaged. Please contact a qualified person for maintenance.

SPECIFICATIONS

Mains Input:	AC 100~240V, 50Hz
Power consumption:	290 Watt
Fuse:	250V 6A circuit breaker
Sound Control:	none
DMX connections:	3pin & 5pin XLR male / female
Movement:	Pan: 540° Tilt: 270° Pan/Tilt position lock for transporting protection.
Dimmer/Shutter:	Mechanical dimmer
Color wheel	14 fixed colors
Gobo wheel	17 fixed gobos
Effect:	8 facet rotating prism & Frost
Zoom:	From 1°~ 3.8°
Focus:	Electronic
DMX channels used:	19 channels
Lamp:	Philips MSD Platinium 5R (8000K)
Size:	415 x 344 x 497.5 mm
Weight:	19 kg







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